



Available Technologies*

Tank farm

- ▶ Full-jacket, vacuum-rated 5,000 L SS media tank enabled with NovaSeptum® sampling system and NovAseptic® GMP mixer
- ▶ 13,000 L process fluid holding capacity
- ▶ 100, 200, 500 L Mobius Disposable Mixer

Filtration

- ▶ 3-high Millistak+® Pod Systems up to 33 m²
- ▶ Millistak+ housings up to 20 m²
- ▶ Range of code 7, 1 to 12 round housings
- ▶ Fully instrumented pump skids 0-200 Lpm and 0-360 Lpm
- ▶ Mobius disposable assemblies and technologies
- ▶ Integritest® Integrity Testing Instruments

Ultrafiltration

- ▶ 80 m² Pellicon® 700 Lpm manual system
- ▶ 20 m² Pellicon 150 Lpm fully automated system
- ▶ Range of pilot UF systems

Chromatography

- ▶ 1.6 m IsoPak® hydraulic column
- ▶ 20-200 Lpm fully automated LPLC system
- ▶ Automated slurry packing system
- ▶ Various QuikScale® columns up to 45 cm

Facilities

- ▶ Steam, RO Water
- ▶ 3,000 ft² wet area
- ▶ 7,000 ft² dry area
- ▶ Cold room—300 ft²
- ▶ Compressed air
- ▶ Glycol coolant
- ▶ 50/60 Hertz electrical service

*Equipment will be regularly updated based on new products and customer requirements.



Bioprocess Manufacturing Sciences Group

Because seeing is believing.

Enabling evaluation at scale

- ▶ Buffer and media preparation
- ▶ Clarification
- ▶ Chromatography
- ▶ Viral clearance
- ▶ Ultrafiltration
- ▶ Sterile filtration
- ▶ Mixing
- ▶ Disposable assemblies and technologies

A unique facility for bio-manufacturing simulation and testing.

At Millipore, we understand the crucial nature of decisions that affect your business. Whether you're designing a new process, evaluating a technology, optimizing a unit of operation or looking for proof of concept, you should be confident it's going to work to your standards. That's why we created our Bioprocess Manufacturing Sciences Group (BMSG) and facility, capable of simulating full-scale operations. It's the proof behind our products, and it's the only facility of its kind. Here, you can see innovative solutions in action. You can perform trials with your own product and raw materials at scale. You can develop methods and protocols, even train operators to ensure easy transfer and product performance. When you leave, you'll leave with the confidence you want and the competitive edge you need.

Start believing today

Call your nearest Millipore office:
 In the U.S. and Canada, call toll-free 1-800-MILLIPORE (1-800-645-5476)
 Outside North America, contact your local office.
 To find the office nearest you: www.millipore.com/offices
 Internet: www.millipore.com
 Tech Service: www.millipore.com

“Customers want peace of mind. Our facility is a risk-free way to evaluate technologies at scale and ensure seamless tech transfer.”

Marty Siwak, Director
Process Technology Group



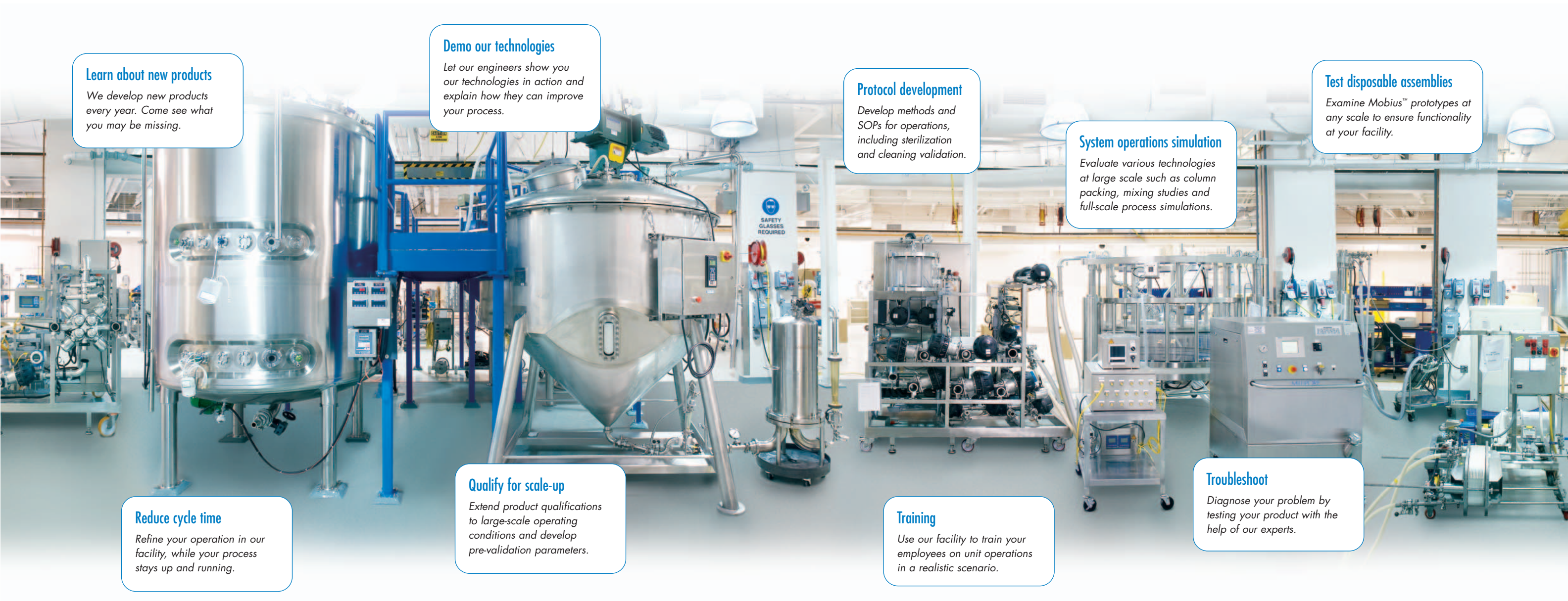
The industry's largest demo

Since its completion, BMSG has been host to hundreds of customers interested in seeing our innovations at work. Spanning over 10,000 square feet, this state-of-the-art facility was designed to evaluate virtually every product and technology we offer. You'll be guided by our industry-experienced scientists and engineers, who can answer your questions, perform or assist in trials and demonstrate the proof you need.

Use it as your own research facility

This facility is equipped with many of the key components to closely simulate your process. Whether evaluating a new product or looking for ways to optimize your process, our capabilities will minimize risk upon scale-up implementation.

Evaluate in a less constraining environment. Save money and resources without compromising your drug, and keep your own process running today, while you're testing with us for tomorrow.



Learn about new products

We develop new products every year. Come see what you may be missing.

Demo our technologies

Let our engineers show you our technologies in action and explain how they can improve your process.

Protocol development

Develop methods and SOPs for operations, including sterilization and cleaning validation.

System operations simulation

Evaluate various technologies at large scale such as column packing, mixing studies and full-scale process simulations.

Test disposable assemblies

Examine Mobius™ prototypes at any scale to ensure functionality at your facility.

Reduce cycle time

Refine your operation in our facility, while your process stays up and running.

Quality for scale-up

Extend product qualifications to large-scale operating conditions and develop pre-validation parameters.

Training

Use our facility to train your employees on unit operations in a realistic scenario.

Troubleshoot

Diagnose your problem by testing your product with the help of our experts.